

Appendix VII. Cross-index to minor minerals reported in Martian meteorites.
Caution: This table is incomplete and may

Caution: This table is incomplete and many of these minerals are unsubstantiated.

Phosphates	i,r						
apatite							
whitlockite							

Unusual glass

“opx. glass”
Si-rich glass
“pl. glass”

i,pp	s,rr	f,p,q					
------	------	-------	--	--	--	--	--

Carbonates

calcite	bbb						
“ankerite”	bbb						
magnesite							
sideroite	gg,yyy						
“dolomite”							
breunnerite							

Other “salts” (see Gooding 1992 for summary)

gypsum (?)	bbb						
epsomite (?)	eee						
NaCl	dd						
Mg-phosphate							
Fe-sulfate	eee						
Fe-K-sulfate							
		lll,mmmm					

Unusual mafic minerals

fayalite	p,q	tt,uu,zz					
pyroxferroite	p		w				
merrillite (?)	p						
ringwoodite (?)				u			
majorite (?)				u			
“alpha olivine”				aaaa			

References

- (a) Tschermak 1872, (b) Tschermak 1885, (c) Michel 1912, (d) Duke 68, (e) Fuchs 1962, (f) Binns 1967, (g) Fuchs 1969, (h) Ashworth & Hutchison 1975, (i) Bunch & Reid 1975, (j) Reid & Bunch 1975, (k) Boctor et al. 1976, (l) Berkley et al. 1978, (m) Weinke 1978, (n) Berkley et al. 1979, (o) McSween et al. 1979, (p) Smith & Hervig 1979, (q) Stolper & McSween 1979, (r) Crozaz 1979, (s) Berkley et al. 80, (t) Reid & Score 1981, (u) Steele & Smith (also Smith & Steele) 1982, (v) Treiman 1983, (w) McSween & Jarosewich 1983, (x) Treiman 1983a, (y) McSween 1983a, (z) Stoffler et al. 1986, (aa) Gooding & Muenow 1986, (bb) Neve 1987, (cc) Berk & Holloway 1988, (dd) Gooding et al. 1988, (ee) Lundberg et al. 1988, (ff) Jagoutz 1989, (gg) Chatzitheodoridis & Turner 1990, (hh) Lundberg et al. 1990, (ii) Gooding et al. 1991, (jj) Johnson et al. 1991, (kk) Treiman & Gooding 1991, (ll) Longhi 1991, (mm) Dreibus et al. 1992, (nn) Gooding 1992, (oo) McCoy et al. 1992, (pp) Harvey & McSween 1992d, (qq) Harvey et al. 1992, (ss) Harvey & McSween 1993, (tt) McCoy et al. 1993, (uu) Wadhwa et al. 1993, (vv) Watson et al. 1994a, (ww) Treiman et al. 1994a, (xx) Ikeda 1994, (yy) Mittelfehdlt 1994a, (zz) Wadhwa et al. 1994, (aaa) Romanek et al. 1994, (bbb) Wentworth & Gooding 1994, (ccc) Harvey & McSween 1995, (ddd) Treiman 1995b, (eee) Thomas et al. 1995, (fff) Thomas et al. 1996, (hhh) Shearer et al. 1996b, (iii) McSween & Eisenhour 1996, (jjj) Mikouchi et al. 1996, (kkk) Wadhwa & Crozaz 1996, (lll) Harvey et al. 1996, (mm) Wentworth & Gooding 1996, (ooo) Gleason et al. 1996, (ppp) Valley et al. 1997, (qqq) Scott et al. 1997, (rrr) McKay & Lofgren 1997, (sss) Thomas-Kepria et al. 1997, (ttt) Bridges et al. 1997, (uuu) Turner et al. 1997, (vvv) Treiman 1998, (www) Wang et al. 1998, (xxx) Greshake et al. 1998, (yy) Bridges and Grady 1998, (zzz) Gleason et al. 1998, (aaaa) Boctor et al. 1998, (bbbb) El Goresy et al. 1998, (cccc) Treiman and Lindsstrom 1997